	Application No.	Applicant(s)
Notice of Allowability	09/587,394	FLORENT, RAOUL
	Examiner	Art Unit
	Shefali D. Patel	2621
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. X This communication is responsive to 9/29/05.		
2. ⊠ The allowed claim(s) is/are <u>16-29</u> .		
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have international Bureau (PCT Rule 17.2(a)). * Certified copies not received:	been received. been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deposit of the deposi	on's Patent Drawing Review (PTG). S Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	Office action of vings in the front (not the back) of 1(d). . must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Summal Paper No./Mail D 7. Examiner's Amen 8. Examiner's Stater 9. Other	pate

ALLOWANCE

Response to Arguments

1. Applicant's arguments, see Remarks pages 9-11, filed on September 29, 2005, with respect to claims 16-18, 20 and 28 have been fully considered and are persuasive. The rejection of these claims has been withdrawn.

Allowable Subject Matter

- 2. Claims 16-29 are allowed and re-numbered to 1-14.
- 3. The following is an examiner's statement of reasons for allowance:

The instant invention defines an image processing method of extracting points of a path following a threadlike structure in an image formed by a grid of potential points as claimed in an independent claim 16. The claimed invention distinguishes over the prior art by the manner in which the back propagating the front along a first track starting at the end point through the children and the fathers of the first track until the start point is reached whereby the points of the path following the threadlike structure in the image are extracted. The claimed combination allows for improving an image processing method/system of extracting the points representing a catheter guide-wire in an X-ray fluoroscopic medical image or thin vessels in an angiogram.

Method/System of medical imaging is conventional in the art. However, the prior art of record fails to teach the back propagating step of the method here within. The prior art of record (COHEN), in short, does not comprise points extracted by tracking (see the present application page 2 lines 16-25). These elements in combination with all of the other elements of the claims are not taught or fairly suggested in the prior art of record. The dependent claims 17-28 are allowed for the same reasons.

Claim 29 is allowed for the same reasons for allowance disclosed in an Office Action mailed on January 26, 2005 and the reasons are not repeated herein, but are incorporated by reference.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shefali D. Patel whose telephone number is 571-272-7396. The examiner can normally be reached on M-F 8:00am - 5:00pm (First Friday Off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Joseph Mancuso can be reached on (571) 272-7695. The fax phone number for the organization where
this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shefali D Patel

Examiner

Art Unit 26

November 22, 2005

JOSEPH MANCUSO